Amendments to the Claims:

This listing of claims will replace all prior versions and listings, of claims in the

application:

Listing of Claims:

Claim 1 (Currently amended): A composition to improve bioenergy metabolism of cells

consisting of: two or more chemical substances of Krebs cycle, wherein the chemical

substances are selected from the group consisting of succinate, fumarate, L-malate, α-

ketoglutarate, citrate, cis-aconitate, isocitrate, oxalsuccinate oxalosuccinate, succinyl-

coenzyme A, succinate, fumarate, L-malate, oxalacetate oxaloacetate, acetyl-coenzyme A,

pyruvate, lipoic Acid, lipoamide, acetyl-lipoamide, lysine, carnitine, ascorbate, thiamine,

riboflavin, nicotinic acid, niacinamide, pantothenate, nicotinamide-adenine dinucleotide,

reduced nicotinamide-adenine dinucleotide, nicotinamide-adenine dinucleotide phosphate,

reduced nicotinamide-adenine dinucleotide phosphate, quinolinate, flavin-adenine

dinucleotide, reduced flavin-adenine dinucleotide, flavin mononucleotide, reduced flavin

mononucleotide, adenosine diphosphate, adenosine triphosphate, guanosine diphosphate,

guanosine triphosphate, magnesium ion, calcium ion, manganese ion, copper iron-sulfate,

and molybdenum; wherein the composition is in the form of pharmaceutically acceptable

earriers for consumption administered as tablets, pills, powders for oral suspension,

capsules, liquid dosage forms, injections, infusions, inhalations, suppositories, or other

pharmaceutically acceptable earriers and/or means of delivery administration means.

Claim 2 (canceled)

Claim 3 (canceled)

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two or more chemical substances of respiratory chain cycle, wherein the chemical

substances are intermediates of the cycle and /or precursors and cofactors thereof.

Claim 5 (withdrawn): The composition according to claim 4, wherein the chemical

substances of respiratory chain cycle are selected from the group consisting of ubiquinone,

ubiquinol, heme a, heme b and heme c.

Claim 6 (withdrawn): A composition to improve bionergy metabolism of cells comprising

two or more chemical substances of urea cycle, wherein the chemical substances are

intermediates of the cycle and /or precursors and cofactors thereof.

Claim 7 (withdrawn): The composition according to claim 6, wherein the chemical

substances of urea cycle are selected from the group consisting of citrulline,

argininosuccinate, arginine, ornithine and aspartate.

Claim 8 (canceled)

Claim 9 (canceled)

Claim 10 (withdrawn): A method for improving bioenergy metabolism of cells,

comprising the step of administering to a human a composition which comprises two or

more chemical substances of Krebs cycle, wherein the chemical substances are

intermediates of the cycle and/or precursors and cofactors thereof.

Claim 11 (withdrawn): The method according to claim 10, wherein the chemical

substances of Krebs cycle are selected from the group consisting of succinate, fumarate, L-

malate, and α-ketoglutarate.

Claim 12 (withdrawn): The method according to claim 10, wherein the chemical

substances of Krebs Cycle are selected from the group consisting of citrate, cis-aconitate,

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isocitrate, oxalsuccinate, a-ketoglutarate, succinyl-coenzyme A, succinate, fumarate, L-malate, oxalacetate, acetyl-coenzyme A and pyruvate.

Claim 13 (withdrawn): A method for improving bioenergy metabolism of cells, comprising the step of administering to a human a composition which comprises two or more chemical substances of respiratory chain cycle, wherein the chemical substances are intermediates of the cycle and/or precursors and cofactors thereof.

Claim 14 (withdrawn): The method according to claim 13, wherein the chemical substances of respiratory chain cycle are selected from the group consisting of ubiquinone, ubiquinol, heme a, heme b and heme c.

Claim 15 (withdrawn): A method for improving bioenergy metabolism of cells, comprising the step of administering to a human a composition which comprises two or more chemical substances of urea cycle, wherein the chemical substances are intermediates of the cycle and/or precursors and cofactors thereof.

Claim 16 (withdrawn): The method according to claim 15, wherein the chemical substances of urea cycle are selected from the group consisting of citrulline, argininosuccinate, arginine, ornithine and aspartate.

Claim 17 (withdrawn): A method for improving bionenergy metabolism of cells, comprising the step of administering to a human a composition which comprises:

| Biochemical Substances | Amount/ Day |
|------------------------|-------------|
| Succinate | 0.01-100 mg |
| Fumarate | 0.01-100 mg |
| L-Malate | 0.01-100 mg |
| α-Ketoglutarate | 0.01-100 mg |

Claim 18 (withdrawn): A method for improving bionenergy metabolism of cells, comprising the step of administering to a human a composition which comprises:

| Biochemical Substances | Amount/ Day |
|-------------------------------|-------------|
| Pyruvate | 0.01-100 mg |
| AcetylCoenzyme a | 0.01-100 mg |
| Citrate | 0.01-100 mg |
| Cis-Aconitate | 0.01-100 mg |
| Isocitrate | 0.01-100 mg |
| Oxalsuccinate | 0.01-100 mg |
| 2-Oxo-Glutarate | 0.01-100 mg |
| Succinyl- Coenzyme A | 0.01-100 mg |
| Oxaloacetate | 0.01-100 mg |

Claim 19 (withdrawn): A method for improving bionenergy metabolism of cells, comprising the step of administering to a human a composition which comprises:

| Biochemical Substances | Amount/ Day |
|-------------------------------|-------------|
| Coenzyme Q-10 (Ubiquinone) | 0.01-20 mg |
| Ubihydroquinone (Ubiquinol) | 0.01-20 mg |
| Heme a (Part of Cytochrome a) | 0.01-20 mg |
| Heme b (Part of Cytochrome b) | 0.01-20 mg |
| Heme c (Part of Cytochrome c) | 0.01-20 mg |

Claim 20 (withdrawn): A method for improving bionenergy metabolism of cells, comprising the step of administering to a human a composition which comprises:

| Biochemical Substances | Amount/ Day |
|-------------------------------|-------------|
| Citrulline | 0.01-100 mg |
| Arginosuccinate | 0.01-100 mg |
| Arginine | 0.01-100 mg |
| Ornithine | 0.01-100 mg |
| Aspartate | 0.01-100 mg |

Claim 21 (withdrawn): A method for improving bionenergy metabolism of cells, comprising the step of administering to a human a composition which comprises:

| Biochemical Substances | Amount/ Day |
|--------------------------------------------|-------------|
| Lipoic Acid | 0.01-100 mg |
| Lipoamide (Lipoic Acid + Lysine) | 0.01-20 mg |
| Acetyl-Lipoamide | 0.01-100 mg |
| Lysine | 0.01-100 mg |
| Carnitine | 0.01-100 mg |
| Ascorbate | 0.01-200 mg |
| Thiamine | 0.01-10 mg |
| Riboflavin | 0.01-10 mg |
| Nicotinic Acid | 0.01-10 mg |
| Niacinamide | 0.01-10 mg |
| Pantothenate | 0.01-10 mg |
| Nicotinamide-Adenine Dinucleotide (NAD) | 0.01-10 mg |
| Reduced Nicotinamide | 0.01-10 mg |

Adenine Dinucleotide

| Nicotinamide-Adenine Dinucleotide | 0.01-10 mg |
|-------------------------------------------------------|------------|
| Phosphate (NADP) reduced NADP (NADPH) | 0.01-10 mg |
| Quinolinate (NAD/NADP precursor) | 0.01-10 mg |
| Flavin-Adenine Dinucleotide (FAD) | 0.01-10 mg |
| Reduced Flavin-Adenine Dinucleotide (FADH) | 0.01-10 mg |
| Flavin Mononucleotide (FMN) | 0.01-10 mg |
| Reduced Flavin Mononucleotdie (FMNH ₂) | 0.01-10 mg |
| Adenosine, Diphosphate (ADP) | 0.01-10 mg |
| Adenosine, Triphosphate (ATP) | 0.01-10 mg |
| Guanosine Diphosphate (GDP) | 0.01-10 mg |
| Guanosine Triphosphate (GTP) | 0.01-10 mg |
| Magnesium (Mg ²⁺) | 0.01-10 mg |
| Copper | 0.01-10 mg |
| Iron-Sulfate | 0.01-10 mg |
| | |

Molybdenum

0.01-10 mg

Claim 22 (withdrawn): A method for improving bionenergy metabolism of cells, comprising the step of administering to a human a composition which comprises:

| Biochemical Substances | Amount/ Day |
|--------------------------------|-------------|
| Succinate | 100 mg |
| Fumarate | 100 mg |
| L-Malate | 100 mg |
| α-Ketoglutarate | 100 mg |
| Pyruvate | 100 mg |
| Acetyl-CoA | 100 mg |
| Citrate | 200 mg |
| Cis-Aconitate | 100 mg |
| Isocitrate | 100 mg |
| Oxalsuccinate | 100 mg |
| 2-Oxo-Glutarate | 100 mg |
| succinyl-Coenzyme A | 100 mg |
| Coenzyme Q-10 (Ubiquinone) | 20 mg |
| Ubihydroquinone (Ubiquinol) | 20 MG |
| Arginine | 100 mg |
| Carnitine | 100 mg |
| Lysine | 100 mg |
| Ascorbate | 200 mg |

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| Thiamine | 10 mg |
|----------------|-------|
| Riboflavin | 10 mg |
| Nicotinic Acid | 10 mg |

Claim 23 (currently amended): A composition for improving bionenergy bioenergy metabolism of cells, wherein the composition is in the form of pharmaceutically acceptable carriers for consumption comprising tablets, pills, powders for oral suspension, capsules, liquid dosage forms, injections, infusions, inhalations, suppositories, or other pharmaceutically acceptable carriers and/or means of delivery consists of:

| Biochemical Substances | Amount/ Day | |
|-------------------------------|------------------|--|
| Succinate | 0.01-100 mg; | |
| Fumarate | 0.01-100 mg; | |
| L-Malate | 0.01-100 mg; and | |
| α-Ketoglutarate | 0.01-100 mg | |

is administered as tablets, pills, powders for oral suspension, capsules, liquid dosage forms, injections, infusions, inhalations, suppositories, or other pharmaceutically acceptable administration means.

Claim 24 (currently amended): A composition for improving bionenergy bioenergy metabolism of cells, wherein the composition is in the form of pharmaceutically acceptable carriers for consumption comprising tablets, pills, powders for oral suspension, capsules, liquid dosage forms, injections, infusions, inhalations, suppositories, or other pharmaceutically acceptable carriers and/or means of delivery-consists of:

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| Biochemical Substances | Amount/ Day |
|-----------------------------|-----------------|
| Pyruvate | 0.01-100 mg; |
| Acetyl -Coenzyme a | 0.01-100 mg; |
| Citrate | 0.01-100 mg; |
| Cis-Aconitate | 0.01-100 mg; |
| Isocitrate | 0.01-100 mg; |
| Oxalsuccinate Oxalosuccina | te 0.01-100 mg; |
| 2-Oxo-Glutarate | 0.01-100 mg; |
| Succinyl- Coenzyme A and | 0.01-100 mg; |
| Oxaloacetate | 0.01-100 mg |

is administered as tablets, pills, powders for oral suspension, capsules, liquid dosage forms, injections, infusions, inhalations, suppositories, or other pharmaceutically acceptable administration means.

Claim 25 (currently amended): A composition for improving bionenergy bioenergy metabolism of cells, wherein the composition is in the form of pharmaceutically acceptable carriers for consumption comprising tablets, pills, powders for oral suspension, capsules, liquid dosage forms, injections, infusions, inhalations, suppositories, or other pharmaceutically acceptable carriers and/or means of delivery consists of:

| Biochemical Substances | Amount/ Day |
|-----------------------------------|--------------|
| Lipoic Acid | 0.01-100 mg; |
| Lipoamide (Lipoic Acid + Lysine); | 0.01-20 mg |
| Acetyl-Lipoamide | 0.01-100 mg; |

| Lysine | 0.01-100 mg; |
|----------------------------------------------------------|--------------|
| Carnitine | 0.01-100 mg; |
| Ascorbate | 0.01-200 mg; |
| Thiamine | 0.01-10 mg; |
| Riboflavin | 0.01-10 mg; |
| Nicotinic Acid | 0.01-10 mg; |
| Niacinamide | 0.01-10 mg; |
| Pantothenate | 0.01-10 mg; |
| Nicotinamide-Adenine Dinucleotide (NAD) | 0.01-10 mg; |
| Reduced Nicotinamide Adenine Dinucleotide | 0.01-10 mg; |
| Nicotinamide-Adenine Dinucleotide Phosphate (NADP) | 0.01-10 mg; |
| reduced NADP (NADPH) | 0.01-10 mg; |
| Quinolinate (NAD/NADP precursor) | 0.01-10 mg; |
| Flavin-Adenine Dinucleotide (FAD) | 0.01-10 mg; |
| Reduced Flavin-Adenine Dinucleotide (FADH) | 0.01-10 mg; |
| Flavin Mononucleotide (FMN) | 0.01-10 mg; |
| Reduced Flavin Mononucleotdie (FMNH ₂) | 0.01-10 mg; |

| Adenosine, Diphosphate (ADP) | 0.01-10 mg; |
|-------------------------------|-----------------|
| Adenosine, Triphosphate (ATP) | 0.01-10 mg; |
| Guanosine Diphosphate (GDP) | 0.01-10 mg; |
| Guanosine Triphosphate (GTP) | 0.01-10 mg; |
| Magnesium (Mg ²⁺) | 0.01-10 mg; |
| Copper | 0.01-10 mg; |
| Iron-Sulfate | 0.01-10 mg; and |
| Molybdenum | 0.01-10 mg |

is administered as tablets, pills, powders for oral suspension, capsules, liquid dosage forms, injections, infusions, inhalations, suppositories, or other pharmaceutically acceptable administration means.

Claim 26 (withdrawn): A composition for improving bionenergy metabolism of cells, wherein the composition is in the form of pharmaceutically acceptable carriers for consumption comprising tablets, pills, powders for oral suspension, capsules, liquid dosage forms, injections, infusions, inhalations, suppositories, or other pharmaceutically acceptable carriers and/or means of delivery_comprising:

| Biochemical Substances | Amount/ Day |
|------------------------|-------------|
| Succinate | 100 mg |
| Fumarate | 100 mg |
| L-Malate | 100 mg |

| α-Ketoglutarate | 100 mg | |
|-------------------------------------|--------|--|
| Pyruvate | 100 mg | |
| Acetyl-CoA | 100 mg | |
| Citrate | 200 mg | |
| Cis-Aconitate | 100 mg | |
| Isocitrate | 100 mg | |
| Oxalsuccinate Oxalosuccinate 100 mg | | |
| 2-Oxo-Glutarate | 100 mg | |
| succinyl-Coenzyme A | 100 mg | |
| Coenzyme Q-10 (Ubiquinone) | 20 mg | |
| Ubihydroquinone (Ubiquinol) | 20 MG | |
| Arginine | 100 mg | |
| Carnitine | 100 mg | |
| Lysine | 100 mg | |
| Ascorbate | 200 mg | |
| Thiamine | 10 mg | |
| Riboflavin | 10 mg | |
| Nicotinic Acid | 10 mg | |